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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/809,838	03/26/2004	Arya R. Behzad	1875.138000G	7963	
75	12/13/2005	EXAM	EXAMINER		
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.			NGUYEN, KHANH V		
Suite 600			<u> </u>		
1100 New York	Avenue, N.W.	ART UNIT	PAPER NUMBER		
Washington, DC 20005-3934			2817		
			DATE MAILED: 12/13/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		App	ication No.	Applicant(s)	Applicant(s)				
		10/8	09,838	BEHZAD, ARYA	BEHZAD, ARYA R.				
		Exar	niner	Art Unit					
			nh V. Nguyen	2817					
Period fo	The MAILING DATE of this commur r Reply	nication appears o	on the cover sheet with the	he correspondence ad	ddress				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comp period for reply is specified above, the maximum some terest to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE C s of 37 CFR 1.136(a). In munication. tatutory period will apply y will, by statute, cause t	OF THIS COMMUNICAT no event, however, may a reply the and will expire SIX (6) MONTHS the application to become ABAND	ION. be timely filed from the mailing date of this of the control of the contro					
Status									
1) 又	Responsive to communication(s) file	ed on 28 Septem	ber 2003.						
	This action is FINAL . 2b) This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🛛	4)⊠ Claim(s) <u>11-23,25 and 26</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)🛛	5) Claim(s) 11-17 is/are allowed.								
6)⊠	Claim(s) <u>18-23</u> is/are rejected.								
7)🖾	Claim(s) <u>25 and 26</u> is/are objected to.								
8)[8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
9) The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* 5	See the attached detailed Office action	on for a list of the	certified copies not rec	eived.					
Attachmen	•		A) 🗖 Javan da o	nani (DTO 442)					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sumr Paper No(s)/Ma						
3) NInform	mation Disclosure Statement(s) (PTO-1449 o r No(s)/Mail Date <u>09/28/05</u> .		5) Notice of Inform 6) Other:	nal Patent Application (PT	O-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Second limitation, "generating a voltage control signal based on an amplitude of the input signal voltage" is not clearly described or failed to disclose in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 18-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Ide et al. (5,955,921).

Ide et al. (Fig. 8) disclose an automatic gain control (AGC) amplifier circuit comprising: a low gain differential pair (37) and a high gain differential pair (38) can be read as a variable gain amplifier receiving at least an input signal voltage (P1, P2),

wherein in the differential pairs comprise a first common source differential pair (37A, 37B) and a second common source differential pair (38A, 38B), note, the sources of the respective pair are connected; at least a voltage control signal is generated at (P3, P4); and a gain control differential pair (39) can be read as adjusting a transconductance of the variable gain amplifier in response to the voltage control signal (P3, P4), see col. 16, lines 55-60, so as to flatten (linear) a transconductance transfer characteristics of the variable gain amplifier or its respective pair/transistor.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ide et al.

Ide et al. disclose the claimed invention except adjusting a transconductance of the first, second, third, and fourth transistor steps each include the step of: reducing a drain source voltage across the corresponding first, second, third, or fourth transistor. However, it is well known in the art that by reducing the component size ie. transistor would result in reducing drain to source voltage across such transistor. Therefore, drain source voltage claimed would be result effective variable set by component sizes, size of a transistor etc. and cannot of itself be considered patentably distinct from Ide et al.

Allowable Subject Matter

Claims 11-17 are allowed.

Claims 25, 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 11-17 call for, among others, a first and a second differential pair amplifier; and a variable voltage source having the connections and functions thereofs.

Claim 25, 26 call for, among others, drain source voltages across corresponding first, second, third, and fourth transistors are reduced by reducing a variable DC voltage applied at the differential current output port in response to the voltage control signal; and the transconductance transfer characteristic of the corresponding first, second, third, or fourth transistor is a relationship between the transconductance of the corresponding transistor versus a gate source voltage of the corresponding transistor as the drain source voltage across the corresponding transistor is varied.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHANH VAN NGUYEN PRIMARY EXAMINER

Khauh Cantquyer

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